

IN THE CLAIMS

Please amend the claims as follows:

1. (Original) A method for manufacturing a single crystal semiconductor, in which a seed crystal is dipped into melt in a crucible and is pulled up to manufacture the single crystal semiconductor having an impurity added thereto, wherein,
in a process of pulling up the single crystal semiconductor, fluctuation in a pulling-up speed is controlled to reduce a variation in concentration of the impurity in the single crystal semiconductor.
2. (Original) A method for manufacturing a single crystal semiconductor, in which a seed crystal is dipped into melt in a crucible and is pulled up to manufacture the single crystal semiconductor having an impurity added thereto, wherein,
in a process of pulling up the single crystal semiconductor, a pulling-up speed fluctuation width in 10 seconds is adjusted to less than 0.025 mm/min.
3. (Original) The method for manufacturing the single crystal semiconductor of claim 1, wherein,
when the pulling-up speed is controlled such that a diameter of the single crystal semiconductor is adjusted to a desired diameter, a magnetic field of 1500 gauss or above is applied to the melt.
4. (Original) The method for manufacturing the single crystal semiconductor of claim 2, wherein,
when the pulling-up speed is controlled such that a diameter of the single crystal semiconductor is adjusted to a desired diameter, a magnetic field of 1500 gauss or above is applied to the melt.

5. (Currently amended) The method for manufacturing the single crystal semiconductor of ~~any one of~~ claims 1 to 4, wherein
the impurity to be added into the single crystal semiconductor is boron B or gallium Ga, and the impurity concentration is 8.0×10^{17} atoms/cc or more.

6. (Currently amended) The method for manufacturing the single crystal semiconductor of ~~any one of~~ claims 1 to 4, wherein
the impurity to be added into the single crystal semiconductor is phosphorus P, antimony Sb, or arsenic As, and the impurity concentration is 5.0×10^{17} atoms/cc or more.